

Efforts to Incorporate Sensitive Species into Water Quality Management

Holly Arrigoni

U.S. Environmental Protection Agency

Region V

Goal

Become more proactive in our protection
of regional diversity

Objectives

- Determine the relative tolerance of tested species
- Compile a comprehensive list of regional aquatic species and state-rated tolerances
- Compare list of tested species with those present in the region

Methods

- Internet
 - State and Federal websites
 - NatureServe
 - ECOTOX
- Literature
- State Contacts (fish only)

Methods

	TAXA	ECOTOX?	GLI?	GENUS	SPECIES	OTHER SCI.	COMMON NAME	ESA STATUS
A	Snail	N	N	Acella	haldenmani		spindle lymnaea	
B	Snail	N	N	Acella	haldenmani		spindle lymnaea	
C	Snail	N	N	Acella	haldenmani		spindle lymnaea	
D	Mussel	N	N	Actinonaias	ligamentina		mucket	State T
E	Mussel	N	N	Actinonaias	ligamentina		mucket	
F	Mussel	N	N	Alasmidonta	marginata		elktoe	State T

Methods

	IL	IN	MI	MN	OH	WI	Global Heritage Rank	National Heritage Rank
A	S?						G3	N3
B			S3				G3	N3
C				S?			G3	N3
D				S2			G5	N5
E		S4					G5	N5
F				S2			G4	N4

Results

- 248 mollusk species present in Region 5
- GLI Clearinghouse database
 - 10 mollusk species tested; 0 species of concern
- ECOTOX
 - 40 mollusk species tested; 9 species of concern
 - 55 genus listings; 5 genus of concern
- 54 mollusk species of concern in the region with no record of toxicity testing

Future Goals

- Finish database to include all aquatic species
- Use to support or refine designated uses and assist in criteria review
- Use information to target new testing, so we can supplement aquatic life use methodologies
 - Better target funding and research

Contacts

Holly Arrigoni

Arrigoni.Holly@epa.gov

312-886-6822

Ed Hammer

Hammer.Edward@epa.gov

312-886-3019